

SMT–Power–Inductors B82475

DATA SHEET



Rated inductance 10 µH .. 680 µH

Construction

- Ferrite core
- Winding: enamel copper wire
- Winding soldered to terminals
- Plastic terminal carrier

Features

- High rated current
- Low DC resistance
- Suitable for reflow soldering

Applications

- Filtering of supply voltages
- Coupling / decoupling
- DC/DC converters
- Automotive electronics

Terminals

- Tinned

Marking

Marking on component:
Manufacturer, L value (in µH), date code

Minimum marking on reel:
Manufacturer, part number, ordering code,
L value and tolerance
quantity, date of packing

Delivery mode

24–mm blister tape , reel packing
packaging quantity 500pcs/reel

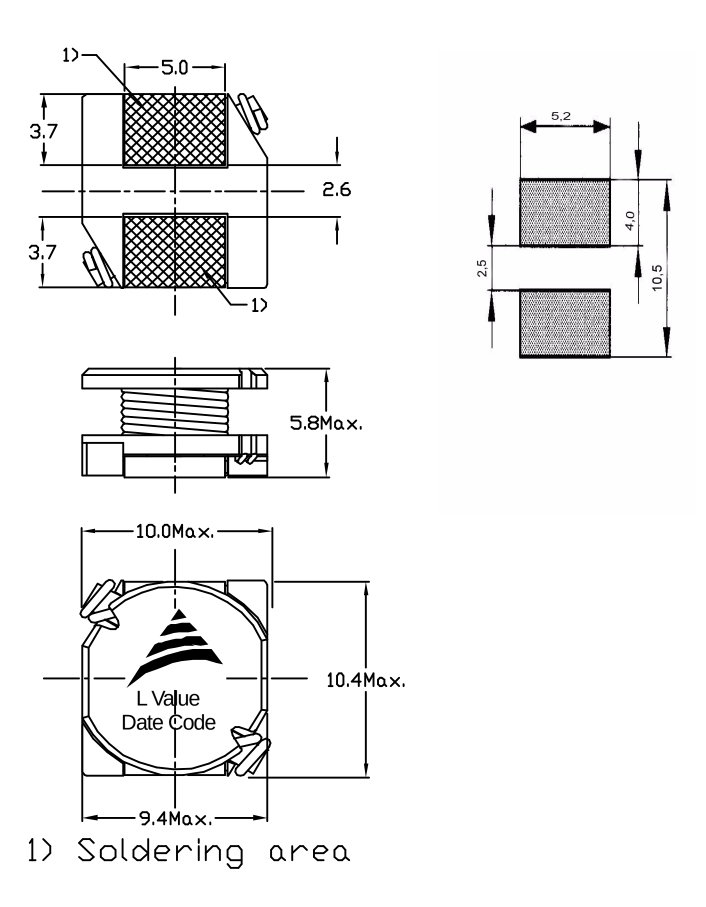




General technical data

Rated inductance L_R	Measured with HP 4284A , measuring voltage 100 mV
Rated current I_R	Maximum permissible DC with temperature increase of ≤ 40 K at ambient temperature of 85 °C
Saturation current I_{sat}	Maximum permissible DC with inductance decrease $\Delta L/L_0 \approx 10\%$
Climatic category	In accordance with IEC 60068–1 55/125/56 (–55 °C/ +125 °C/ 56 days damp heat test)
Solderability	5s, 235°C, wetting > 90%
DC resistance R_{max}	Measured at 20 °C ambient temperature
Weight	Approx. 1,5g

Dimensional drawing and layout recommendation





Characteristics and ordering codes

L_R µH	f_L MHz	Tolerance	I_R A	I_{Sat} A	R_{max} Ω	Ordering code
10	0,1	20 %	2,60	2,75	0,06	B82475–A1103–M
15	0,1	20 %	2,27	2,35	0,08	B82475–A1153–M
22	0,1	20 %	1,95	2,00	0,10	B82475–A1223–M
33	0,1	20 %	1,50	1,60	0,12	B82475–A1333–M
47	0,1	10 %	1,28	1,35	0,17	B82475–A1473–K
68	0,1	10 %	1,11	1,20	0,22	B82475–A1683–K
100	0,1	10 %	0,97	1,00	0,35	B82475–A1104–K
150	0,1	10 %	0,78	0,82	0,47	B82475–A1154–K
220	0,1	10 %	0,66	0,70	0,73	B82475–A1224–K
330	0,1	10 %	0,52	0,55	1,15	B82475–A1334–K
470	0,1	10 %	0,42	0,45	1,48	B82475–A1474–K
680	0,1	10 %	0,28	0,30	2,25	B82475–A1684–K